

IN THE SPECIFICATION

Please replace the title of the disclosure with the following new title:

-- LITHIUM SECONDARY BATTERY CONTAINING ORGANIC PEROXIDE IN
NON-AQUEOUS ELECTROLYTE, POSITIVE ELECTRODE, OR NEGATIVE ELECTRODE

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Please amend paragraph [0030] of the disclosure as follows:

Among them, phases comprising silicon and at least one transition metal selected from the group consisting of Ti, Ni, Co, Fe and Cu, alloy phases comprising silicon and the above-mentioned at least one transition metal, and intermetallic compound phases comprising silicon and the above-mentioned at least one transition metal are preferred. Exemplary phases comprising silicon and at least one transition metal selected from Ti, Ni, Co, Fe, Cu, Zr, and the like include: solid solution phases comprising silicon and at least one transition metal element selected from the group consisting of Ti, Ni, Co, Fe and Cu; and alloy phases comprising silicon and at least one intermetallic compound selected from the group consisting of TiSi₂, TiSi, CoSi₂, CoSi, FeSi₂, FeSi, NiSi₂, NiSi, and Cu₃Si.

In this case, it is further preferred that the above-mentioned at least one transition metal include Ti. Also, among these phases, phases comprising TiSi₂ are particularly preferred. This is because TiSi₂ has a high electronic conductivity.

It should be noted that a mixture of the above-mentioned material, such as alloy, with carbon material, such as graphite, may be used as the negative electrode active material unless the feature of high capacity is [[not]] impaired.

Please insert the following Table 1 at paragraph [0076]. This Table 1 is fully disclosed in PCT/JP2005/004443, of which the present application is a national phase.

[Table 1]

	Positive electrode active material	Negative electrode active material	Organic peroxide	Battery capacity (mAh)	Capacity retention rate (%)
Battery A1	$\text{LiCo}_{0.98}\text{Mg}_{0.02}\text{O}_2$	Ti-Si alloy	Cumene peroxide	2635	79
Battery A2	$\text{LiCo}_{0.98}\text{Mg}_{0.02}\text{O}_2$	Ti-Si alloy	m-chloroperbenzoic acid	2642	85
Battery A3	$\text{LiCo}_{0.98}\text{Mg}_{0.02}\text{O}_2$	Ti-Si alloy	Diethyl peroxide	2611	76
Battery A4	$\text{LiCo}_{0.98}\text{Mg}_{0.02}\text{O}_2$	Ti-Si alloy	α -cumyl peroxynodecanate	2629	74
Battery A5	$\text{LiCo}_{0.98}\text{Mg}_{0.02}\text{O}_2$	Ti-Si alloy	Benzoyl peroxide	2623	77
Battery A6	$\text{LiCo}_{0.98}\text{Mg}_{0.02}\text{O}_2$	Ti-Si alloy	1,1-di-t-butylperoxy cyclohexane	2590	67
Battery A7	$\text{LiCo}_{0.98}\text{Mg}_{0.02}\text{O}_2$	Ti-Si alloy	Acetyl acetone peroxide	2636	72
Battery A8	$\text{LiCo}_{0.98}\text{Mg}_{0.02}\text{O}_2$	Si thin film	Cumene peroxide	2640	78
Battery A9	$\text{LiCo}_{0.98}\text{Mg}_{0.02}\text{O}_2$	Si thin film	m-chloroperbenzoic acid	2725	82
Battery A10	LiCoO_2	Ti-Si alloy	m-chloroperbenzoic acid	2655	83
Battery A11	$\text{LiNi}_{0.88}\text{Co}_{0.12}\text{O}_2$	Ti-Si alloy	m-chloroperbenzoic acid	2870	80
Battery A12	$\text{LiNi}_{0.95}\text{Co}_{0.05}\text{Al}_{0.02}\text{O}_2$	Ti-Si alloy	m-chloroperbenzoic acid	2802	83
Battery A13	$\text{LiNi}_{1/3}\text{Co}_{1/3}\text{Mn}_{1/3}\text{O}_2$	Ti-Si alloy	m-chloroperbenzoic acid	2585	85
Compara. battery 1	$\text{LiCo}_{0.98}\text{Mg}_{0.02}\text{O}_2$	Ti-Si alloy	None	2635	57
Compara. battery 2	$\text{LiCo}_{0.98}\text{Mg}_{0.02}\text{O}_2$	Si thin film	None	2750	55
Compara. battery 3	$\text{LiCo}_{0.98}\text{Mg}_{0.02}\text{O}_2$	Graphite	m-chloroperbenzoic acid	2280	82
Compara. battery 4	$\text{LiCo}_{0.98}\text{Mg}_{0.02}\text{O}_2$	Graphite	None	2284	80
Compara. battery 5	LiMn_2O_4	Ti-Si alloy	m-chloroperbenzoic acid	2250	73
Compara. battery 6	LiMn_2O_4	Graphite	m-chloroperbenzoic acid	1923	79